

January 8, 2015

1st
2nd

STARTER

Starting at the bottom left corner and moving either up or right (but never down or left or diagonal), add up the numbers on your path. What is the largest number that can be made before you can't move any further?

5	2	5	4	1
7	6	1	7	3
5	9	4	1	5
2	3	8	3	2
3	1	4	9	6



1/8 - Solving Two-Step Inequalities

Remember:

When there are 2 operations,
do the one **connected** to the variable **last**.
Get rid of the "extras" first!

from before...

Connected to x

$$\frac{x}{3} - 4 = 9$$

Do this one first - extras

$$3 \cdot \frac{x}{3} = 13 \cdot 3$$
$$x = 39$$

New - with inequalities...

$$-7 + \frac{r}{5} \leq -4$$
$$+7 \quad +7$$
$$5 \cdot \frac{r}{5} \leq 3 \cdot 5$$
$$r \leq 15$$

Try these. Remember to switch the inequality when necessary!

$$\begin{array}{r} 6n + 8 \leq -76 \\ \quad \quad \quad \underline{-8} \quad \quad \quad \underline{-8} \\ 6n \leq -84 \\ \quad \quad \quad \underline{6} \quad \quad \quad \underline{6} \\ n \leq -14 \end{array}$$

This is a subtraction so don't flip the symbol!

$$\begin{array}{r} -4 < 10 - 7n \\ \quad \quad \quad \underline{-10} \quad \quad \quad \underline{-10} \\ -14 < -7n \\ \quad \quad \quad \underline{-7} \quad \quad \quad \underline{-7} \\ 2 > n \\ n < 2 \end{array}$$

$$-8 + \frac{x}{3} < -12$$

+8

+8

$$3 \cdot \frac{x}{3} < -4 \cdot 3$$

$$x < -12$$

$$-3 \leq -1 - \frac{m}{3}$$

+1

+1

$$-3 \cdot -2 \leq -3 \cdot -1 - \frac{m}{3} \cdot -3$$

$$6 \geq 3 - m$$

$$m \leq 6$$

$$-3 \cdot -\frac{1}{2} \leq -3 \cdot -\frac{1}{2} - \frac{m}{3} \cdot -3$$

Homework

Blue WS4

Due Monday